

Nokia PC Suite 4.95 User Guide



and PC Connectivity Guide for the Nokia 3585i phone

NOKIA
CONNECTING PEOPLE

The Nokia 3585i phone described in this guide is approved for use in CDMA 800/1900 MHz and AMPS 800 MHz networks.

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1 Introduction

This guide provides you with the following information:

- Installation instructions for Nokia PC Suite 4.95
- Instructions for using Nokia PC Suite 4.95
- Instructions for using your phone as a wireless modem
- Instructions for configuring your data/fax software

• OBSERVE SYSTEM REQUIREMENTS

To install and run Nokia PC Suite 4.95, you need:

- Nokia 3585i phone
- Windows 98 (First or Second Ed.), Windows Millennium Edition (ME), Windows 2000 Professional, or Windows XP (Home or Professional)
- At least 50 MB of free disk space
- The optional DKU-5 data cable
- An available USB port on your PC
- A compatible PC Personal Information Manager (PIM) application for use with Nokia PC Sync



Note: Nokia Content Copier (a component of Nokia PC Suite) supports a variety of Nokia phones, some of which make their connection to a PC using a different data cable. For a list of compatible phones and connection methods, please see "Learn about compatible phones" on page 6.

• LEARN ABOUT COMPATIBLE APPLICATIONS

Nokia PC Sync is compatible with the Personal Information Manager (PIM) applications listed below:

Application name:	Version
Microsoft Outlook	97, 98, 2000, 2002
Outlook Express	All (using Windows Address Book)
Lotus Notes	4.5, 4.6, 5.0
Lotus Organizer	97, GS, 5.0, 6.0

• UNDERSTAND REQUIREMENTS FOR DIGITAL DATA AND FAX CALLS



Note: This feature is available only if your service provider's network supports digital data and fax calls (including 1XRTT packet data services). Check with your service provider for more information.

Before you can make digital data and fax calls using your Nokia phone as a wireless modem:

- You must subscribe to digital data or fax services with your service provider.
- Your phone must be powered up, and digital service must be available. Digital data calls are not available when you are outside of a digital network.
- Your phone must be connected to your PC using the optional DKU-5 data cable.
- Your data or fax software must be running and must be configured to recognize your Nokia phone as the active modem.

• PRINT THIS GUIDE

No other applications should be running during the installation of PC Suite and during wireless modem setup. Therefore, reading this guide using Adobe Acrobat reader during installation is not recommended.

• OBSERVE TERMS

For the purposes of this user guide, the following terms are used:

Term	Description
MMS	Multimedia Messaging Service
PC	Personal computer (refers to both desktop and laptop)
PIM	Personal Information Manager
ISP	Internet Service Provider

• COMPLY WITH SAFETY NOTES

- Refer to the user guide of the product for instructions on operation, care, and maintenance, including important safety information.
- Do not switch on your phone when wireless phone use is prohibited, or when it may cause interference or danger.
- When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.
- Make backup copies of all important data to protect against possible loss or alteration.
- To avoid any potential loss of data, you should not make or receive calls while synchronizing data between the phone and a PC.
- To disconnect the cable from the phone, hold the connector and remove the cable.

2 Nokia PC Suite installation

Nokia PC Suite 4.95 is a collection of powerful tools that you can use to manage your phone features and data. PC Suite consists of the following components:

- **Nokia Content Copier** allows you to copy data between two Nokia phones, to back up phone data to your PC, and erase data from your phone.
- **Nokia Connection Manager** allows you to monitor the serial connection between your phone and PC and switch to a different type of connection when copying data from one phone to another.
- **Nokia Sound Converter** is used to convert Standard MIDI Files (SMFs) or General MIDI (GM) files for use with MMS messages and as ringing tones for your phone.
- **Nokia PC Sync** allows you to synchronize contacts, calendar and to-do list notes between your phone and PIM applications such as Microsoft Outlook and Lotus Organizer.
- **Nokia PC Graphics** allows you to create new caller group logos and picture messages or allows you to edit pictures (or picture messages) already in your phone.
- **Nokia Phone Editor** allows you to edit your phone contacts list and settings from your PC.
- **Nokia Application Installer** allows you to install Java™ applications from your PC to the phone.

• DOWNLOAD PC SUITE

The Nokia PC Suite program is provided free of charge, and is available for download from the PC software downloads section of:

<http://www.nokia.com/us>.

Please download the setup application to a location on your hard drive. If you downloaded the application in segments, please double-click the first segment .exe file and follow the instructions to extract the installer application from the segments.

Install DKU-5 software and hardware

The Nokia DKU-5 data cable and software drivers provide a means of communication between your phone and PC. The cable and software *must* be installed and configured properly before you can install Nokia PC Suite. Please follow the instructions found in the DKU-5 sales package prior to installing Nokia PC Suite.

Install PC Suite software

Once the software download is complete and/or the segments have been rejoined:

- 1 Double-click the PC Suite installation file that you downloaded to your hard drive.
 - 2 If prompted, click **Next** to accept the default location of the temporary installation files.
 - 3 Click **Next** to begin the software installation.
 - 4 Read the end-user software agreement, then click **Yes** to accept its terms.
 - 5 Review the safety notes, then click **Next**.
 - 6 Click **Next** to install all PC Suite components (or clear the check boxes of the components you do not want to install).
 - 7 Select the language you wish to use with PC Suite, then click **Next**.
-  **Note:** If you use a PIM application (Outlook, Lotus Organizer, etc.) and you want to use it with Nokia PC Sync, it is recommended that you select the same language used by your PIM.
- 8 Follow the installation wizard instructions for establishing a connection between your phone and PC, then click **Next**.
 - 9 Continue through the installation wizard, then click **Finish** to restart your PC.

Change language

The language chosen during installation for PC Suite applies to all of the PC Suite components and Help applications. If you need to change PC Suite to a different language, you must reinstall PC Suite.

• REMOVE PC SUITE

If you need to remove PC Suite (including all components), please use **Add/Remove Programs** (located in **Control Panel**). Remember to close any PC Suite applications that are running before you begin.

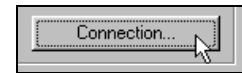
To remove PC Suite 4.95:

- 1 Click **Start**, point to **Settings**, then click **Control Panel**.
- 2 Double-click **Add/Remove Programs**.
- 3 Scroll through the list of installed applications, then click **Nokia PC Suite 4.95**.
- 4 Click the **Add/Remove** button.
- 5 Click **Remove** from the **Nokia PC Suite Setup** window, then click **Next**.
- 6 Follow the on-screen instructions until the setup wizard has completed removing the program.
- 7 Restart your computer to complete the removal process.

3 Nokia Connection Manager

Nokia Connection Manager is a utility that allows you to select or change the type of connection between your phone and PC.

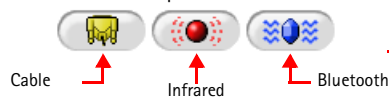
You may need to use Connection Manager to select the type of connection you want Nokia Content Copier to use during various stages of the process. For example, if you are trying to copy data from one phone to another and the phone containing the data you want to copy requires an IR connection, click Content Copier **Connection** button to launch Connection Manager. Then select the correct connection option for the source phone.



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Switch connection type

- 1 Establish the appropriate connection between your phone and PC (using IR or cable), then double-click the Connection Manager tray icon  (or select the **Connection** option from a PC Suite application menu).
- 2 Click the button that corresponds to the desired connection type:



Selected/enabled buttons are indicated by their green color.



- 3 Allow Connection Manager to detect your phone.
- 4 Click **OK** to return to Nokia PC Suite or the desktop.

If your phone is not detected within 10 seconds, switch the connection type off, then on again. This action forces Connection Manager to detect your phone again.

 **Note:** If you are copying data from one phone to another and the source phone uses an IR connection, interrupt the IR connection between source phone and PC. Allow the Windows warning message regarding interrupted IR communications to disappear before changing the connection back to the DKU-5 data cable. By doing so, you allow Connection Manager to detect your phone more quickly.

 **Important:** Even though your Nokia 3585i phone does not support the Bluetooth wireless technology, Bluetooth support is included for compatibility with other Nokia phones.

Disable Connection Manager for wireless modem use

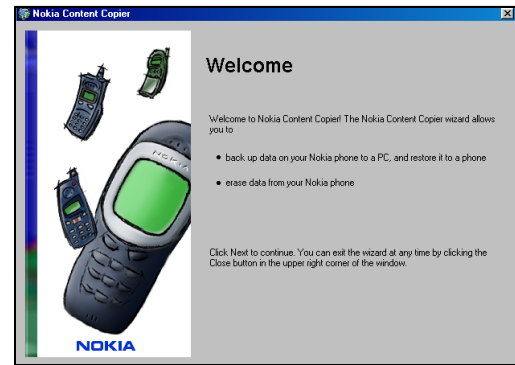
When you close one of the PC Suite applications, Connection Manager may not always release the COM port assigned to your cable or IR connection. Before Windows Dial-up Networking or other data/fax software can communicate with your phone using the DKU-5 data cable, you may need to launch Connection Manager and turn off cable communications. This disables automatic detection of your phone and releases the COM port for use by other Windows applications.

To disable Connection Manager, double-click the tray icon , then click the appropriate buttons to disable cable communications.

4 Nokia Content Copier

Nokia Content Copier is a powerful application that allows you to perform the following tasks:

- Copy data from a compatible phone to your Nokia 3585i phone (or between two Nokia 3585i phones).
- Back up phone data to your PC, then restore the data back to your phone.
- Erase data from your phone.



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• LEARN ABOUT COMPATIBLE PHONES

One of the most powerful features of this application is that it supports other compatible Nokia phones. This capability is especially useful if you are upgrading to a new handset and want to transfer data from your old phone to your new one. You can also use this application to transfer information between other Nokia 3585i phones.

The table on the following page shows a list of Nokia phones compatible with Nokia Content Copier (other than Nokia 3585i), as well as the method of connection to the PC:

Nokia model number	Method of connection
3320/3360	IR
3570/3585	DKU-5
5190, 6190	DAU-9P data cable
6310i, 6340/6340i, 6360	DLR-3P data cable and IR
6370, 6385	DLR-3P data cable, DKU-6 data cable, and IR
7160, 7190	DLR-3P data cable
8290, 8890	IR
8390	IR

 **Important:** Content Copier does not support copying data *to* any of the phones listed above. Data can only be read *from* these phones, then copied to a Nokia 3585i phone.

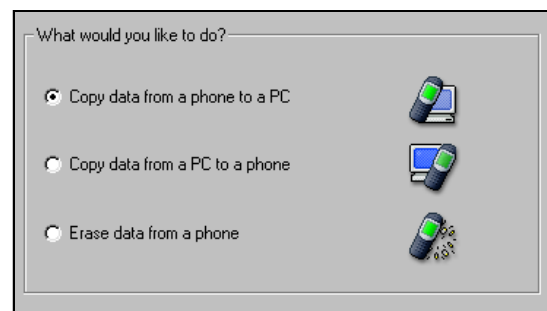
 **Note:** Nokia Content Copier does not support certain Nokia 5100 and 6100 series phones. For more information on specific models of incompatible phones, see "Learn about other Nokia phones" on page 8.

• LEARN ABOUT CONTENT COPIER

Nokia Content Copier uses a wizard-style interface to help you perform the tasks listed above. Launch Content Copier from the Start menu (Start > Programs > Nokia PC Suite 4 > Nokia Content Copier), then select the task you wish to perform. Follow the on-screen instructions to complete the selected task.

You may need to use Nokia Connection Manager to select the type of connection you want Content Copier to use during various stages of the process. For example, if you are trying to copy data from one phone to another and the phone containing the data you want to copy requires a data cable, click the Content Copier **Connection** button to launch Connection Manager. Then select the correct connection option for the source phone.

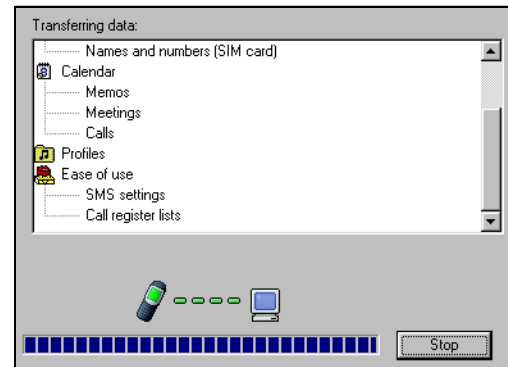
The following pages contain basic information and tips on using Nokia Content Copier.



Copy data from the source phone

When you select **Copy data from a phone to a PC**, Content Copier transfers all compatible data types (contacts list, calendar, to-do, caller groups, etc.) from the phone containing the data you want to back up or transfer. This phone is called the "source phone" and can be one of the phones listed on the previous page, or another Nokia 3585i phone.

- If you are copying phone data and want to save it on your PC, Nokia Content Copier guides you through the process of saving the information to your PC hard drive.
- If you are copying data from a different source to your Nokia phone, the data must first be saved to your PC. Once you have connected your Nokia 3585i phone (*target phone*) using the cable, see "Copy information to the target phone" for further instructions.



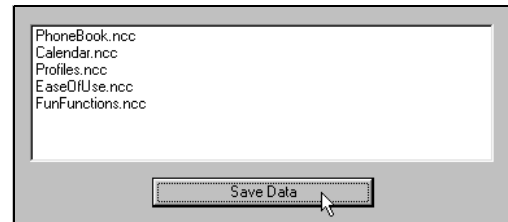
Save the source phone data

Once the source phone data is read, save the information to your PC hard drive.

- 1 Click the **Save Data** button.
- 2 Navigate to the location on your hard drive where you want the information stored.

Nokia Content Copier automatically names the files for you, based on the type of data that is read from the source phone.

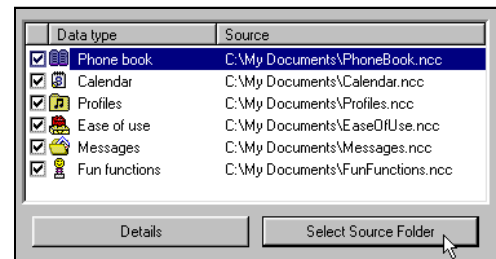
- 3 Click **Next** to complete this process.
- 4 Click **New Action** to return to the beginning of the Content Copier wizard (to perform a different task), or click **Finish** to close Content Copier.



Copy information to the target phone

Before you can copy information to the target phone, you need to load the information into PC memory. You should have already saved the source phone data to your PC using the **Copy data from a phone to a PC** option.

- 1 Launch Nokia Content Copier, then click **Next**.
- 2 Click **Copy data from a PC to a phone**, then click **Next**.
- 3 Click the **Select Source Folder** button, then locate the directory containing the information you want to use.
- 4 Click **Next** to begin copying data from your PC to your phone.



Once the source phone information has been loaded from your PC hard drive, you are asked to determine the types of information you want copied into your phone. The compatible data types are displayed along with the ability to select the types of data you wish to transfer.

Use the check boxes next to the data types to select or deselect the information you want to copy to your phone. Click **Next** to begin copying the data to your phone.

Nokia Content Copier log

When you have successfully completed one of the Nokia Content Copier tasks, the **Finish** screen is displayed along with a log of the tasks that were just performed. At the **Finish** screen, you have the following options:

- Click **Save** to save the log (.log) file to your PC hard drive.
- Click **New Action** to return to the beginning of the Nokia Content Copier wizard.
- Click **Finish** to exit Nokia Content Copier.

- **LEARN ABOUT OTHER NOKIA PHONES**

Due to software and hardware differences between generations of phone technology, the following phones are *not* compatible with Nokia Content Copier:

Protocol	Nokia model number
TDMA	5120, 5125, 5160, 5165 6120/6120i, 6160/6160i/6160m 6161/6161i, 6162/6162i/6162m, 8260
CDMA	3280, 3285 5170/5170i, 5180/5180i, 5185 6180/6180i, 6185/6185i
GSM1900	3390, 3395

5 Nokia Sound Converter

Nokia Sound Converter allows you to convert Standard MIDI files (.mid) for use with your Nokia phone. Nokia Sound Converter also supports several common ringing tone file formats (.ott, .nrt, and .rtp). Once you convert and transfer these files to your phone you can use them with MMS (Multimedia Messaging Service) messaging and as ringing tones. Now you can carry a version of your favorite MIDI file as a ringing tone in your phone.

• LEARN ABOUT MIDI FILES

The new generation of Nokia phones are equipped with a polyphonic sound (MIDI) playback device (similar to your PC sound card). Your phone is capable of producing up to four different instrument sounds at the same time and makes use of a new type of MIDI ringing tone format.

Use SP MIDI files

SP (scalable polyphony) MIDI was designed for use in handheld devices to create more robust ringing tones and MMS melodies. The availability of SP MIDI ringing tones continues to increase as more mobile phones and handheld devices support this feature.

Many popular Internet ringing tone Web sites now offer SP MIDI ringing tones that you can download to your PC. You can use Nokia Sound Converter to upload new SP MIDI ringing tones to your Nokia phone.

Use Standard MIDI Files (SMF)

You can also use Nokia Sound Converter to modify and convert your favorite songs in Standard MIDI File (SMF) format for use with your phone. There are two types of SMFs:

- Type 0 SMF format—one track of MIDI data containing all the various instrument parts; each part is assigned to a different MIDI channel (1–16).
- Type 1 SMF format—each instrument has its own dedicated track and MIDI channel (1–16).

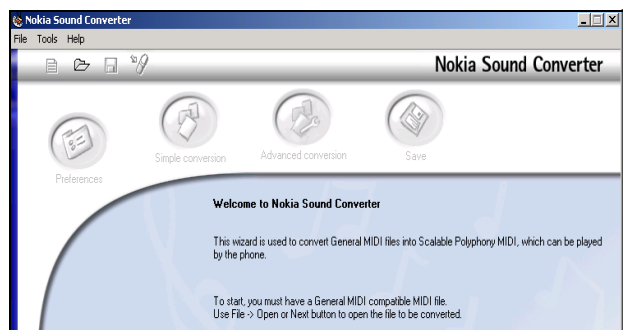
Nokia Sound Converter supports Type 1 files. These Type 1 files are often called General MIDI (GM) files by those manufacturing audio devices for home use or for hobbyists (as opposed to devices designed for professional audio applications such as recording studios, etc.). GM files use the Type 1 format because the composer of the SMF can designate a particular instrument or sound and embed this information in the SMF.

Since many SMFs contain more voices and instruments than your phone can accommodate, Nokia Sound Converter is designed to help you optimize these files for use with your phone.

• LEARN ABOUT NOKIA SOUND CONVERTER

Nokia Sound Converter is designed primarily for the conversion of SMFs or GM files to SP MIDI files. The main Sound Converter tasks include:

- Opening the desired MIDI file
- Setting the priority of the MIDI channels (instruments) to be played
- Adjusting the number of notes used per channel (polyphony)
- Saving the modified MIDI file to your PC
- Uploading the ringing tone to your phone



Understand terms and concepts

The following explanations may prove helpful as you optimize your favorite MIDI files for use with your Nokia phone:

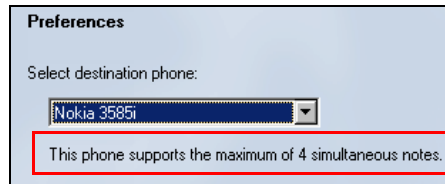
- **Channels**—Each MIDI instrument (bass, piano, guitar, brass, etc.) is assigned a different MIDI channel (1–16). Note that your MIDI file may contain several channels of the same type of instrument (for example, **Brass 1**, **Brass 2**, **Brass 3**, etc.). You may need to listen to each channel or instrument to determine which channel you want to use.
- **Polyphony**—Refers to the number of simultaneous notes that your phone MIDI playback device can play (or the number of simultaneous notes per channel required by the GM file). You may need to lower the polyphony value of a channel in order to be able to use more channels/instruments in your ringing tone.

Nokia Sound Converter allows you to optimize your favorite MIDI file by adjusting the priority of the channels (instruments) and adjusting the polyphony value of the desired instrument.

Open a GM file

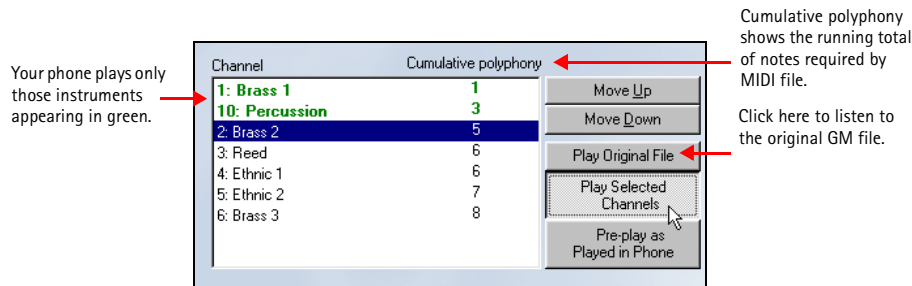
To open a GM file for conversion to SP MIDI:

- 1 Establish a connection between your phone and PC.
- 2 Launch Nokia Sound Converter, then click **Next**.
- 3 Use the dialog box to highlight the MIDI file you want to convert, then click **Open**.
- 4 Confirm that your phone appears as the selected destination, and note the number of simultaneous notes and/or instruments your phone can support.



- 5 Click **Next**.

Nokia Sound Converter analyzes your GM file and moves what it determines as the most important instruments to the top of the priority list.



Note that some instruments require more polyphony than others. In the GM priority list example, **Brass 1** requires one note, whereas **Percussion** requires the ability to play two notes simultaneously. Since your phone supports up to four notes simultaneously, the use of **Brass 1** and **Percussion** gives you a cumulative polyphony of three notes total. Note that **Brass 2** requires two notes and causes this MIDI file to exceed your phone playback capabilities. While you still have one additional note available, the remaining instruments in the list cannot be played by your phone.

Use Simple Channel Priority options

If you analyze the cumulative polyphony of the remainder of the instruments, you may discover that some voices require less polyphony than others. In the example above, **Reed**, **Ethnic 1**, **Ethnic 2**, and **Brass 3** only require one note each. You may want to use one or more of the following options to select other instruments for use in your ringing tone.

LISTEN TO A MIDI CHANNEL

You can listen to one or more of the MIDI channels to determine if you want to use instruments other than those selected by Sound Converter. Highlight the desired MIDI channel (or hold the Ctrl key to select more than one), then click **Play Selected Channels**.

CHANGE CHANNEL PRIORITY

Use the **Move Up** or **Move Down** buttons to change the priority of a channel. In the GM priority list example, you may consider moving one or more of the channels higher that requires only one note of polyphony (for example, **Reed** or **Ethnic 1**). The end result is having a wider variety of instrument sounds in your MIDI ringing tone.

LISTEN TO YOUR MIDI FILE

You can simulate playback of the MIDI file by your phone while you are editing. Click the **Pre-play as Played in Phone** button at any time to hear how the changes you make to the channel priority affect what you hear.

Use Advanced channel priority options

One method of increasing the number of different channels (instrument sounds) available to you at a given time is to adjust the calculated polyphony value of the channel. However, to do this you must select the **Advanced** option. Click the **Advanced conversion** button to access the additional conversion options or click the **Back** button and select **Advanced**).



Advanced conversion

In the previous example, the **Brass 2** channel contains the main melody of the MIDI file. The **Brass 1** channel contains the bass part (in this case, played by a tuba sound).

Channel	Cumulative polyphony (Calc)	User
1: Brass 1	(1)	1
2: Brass 2	(3)	3
10: Percussion	(5)	4
3: Reed	(6)	6
4: Ethnic 1	(6)	6
5: Ethnic 2	(7)	7
6: Brass 3	(8)	8

Number of notes as calculated by Nokia Sound Converter.

Number of notes as defined by the user.

Used to change the calculated polyphony value for the selected instrument.

Polyphony value for channel 10: 4

☒ Optimise file size

Buttons: Move Up, Move Down, Play Original File, Play Selected Channels, Pre-play as Played in Phone

5

Moving the **Brass 2** channel above the **Percussion** channel sets **Percussion** to a lower priority. Reducing the polyphony of the **Percussion** channel by one voice brings the cumulative polyphony of the first three channels to four.

In effect, you have adjusted or scaled the polyphony of your MIDI file to work more effectively with your phone, hence the term *scalable polyphony*. Your phone is now able to play the first three instrument sounds simultaneously.

Save your SP MIDI file

Once you have made the necessary adjustments to the GM file, you should save your work. From either the **Simple conversion** or **Advanced conversion** screens:

- 1 Click **Next**.
- 2 Click the **Save File** button.
- 3 Use the **Save As** dialog box to save your file with a different file name.

Note that SP MIDI files and GM files use the same file extension (.mid). You may want to choose a new file name so as to distinguish the SP MIDI file from the original GM source file.

Transfer to phone

When you transfer the SP MIDI file to your phone, the phone stores the file in the **Gallery** menu. Once you recall the file from the **Gallery** menu, you can assign it as a ringing tone to the currently selected file or attach it to an MMS message. For more information on these features, please refer to the phone user guide.

- 1 From the **Save** dialog, click the **Update to phone** button.
- 2 Make any changes to the MIDI file title using the **Update As** dialog box, then click **OK**.
- 3 Click **Finish** to return to the beginning of the **Nokia Sound Converter** wizard, or click the close button to exit the application.

6 Nokia PC Sync

Nokia PC Suite allows you to synchronize the contact and calendar information in your PC Personal Information Manager (PIM) software and your Nokia mobile phone. You can use Nokia PC Sync to keep information up to date in both locations.

PC Sync supports a variety of PIM applications, including Microsoft Outlook, Outlook Express (using Windows Address Book), and Lotus Organizer. PC Sync also offers a wide variety of synchronization options so that you can personalize the way you want your information managed.



Warning: To avoid any potential loss of data, you should not make or receive calls while synchronizing data between the phone and your PC. Nokia PC Sync cannot be used while a data call is in progress. Likewise, you cannot initiate a data call while synchronizing data with PC Sync.



Important: Remember to make backup copies of all important data to protect against possible loss or alteration.

• CONFIGURE PC SYNC

The first time you run Nokia PC Sync, you must configure PC Sync to work with your PIM application. Once you have customized PC Sync, you can proceed with synchronizing your PIM data with your phone.

- 1 Establish a connection between your phone and PC.
- 2 Launch Nokia PC Sync by clicking **Start**, point to **Programs**, point to **Nokia PC Suite 5**, then click **Nokia PC Sync**.
- 3 Select your PIM application from the drop-down list, then click **OK**.
- 4 Click the **More** button to view a summary of current or default settings.

Set General synchronization properties

- 1 Click the **General** tab, then select the information you want to synchronize.
- 2 Click the desired **Automatic Synchronization** option (for example, **Every connection**).
- 3 Click the **Advanced** button to specify additional options, including resolving synchronization conflicts.

Synchronization conflicts

A synchronization conflict occurs when you change or edit a contact, calendar, or to-do list note in both your phone and PIM between synchronization sessions. By default, PC Sync resolves the conflict by treating your phone as the correct information source.

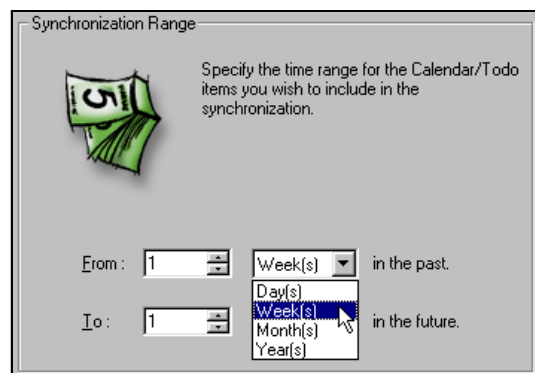
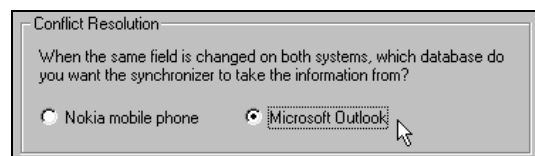
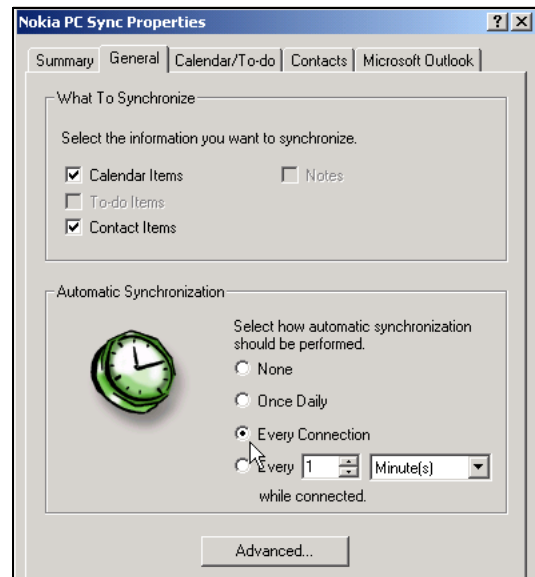
To change conflict resolution properties, click the option associated with your PIM application.

Set Calendar and Contacts properties

Your PIM application storage capabilities are much more extensive than those of your phone. Use the **Calendar/To-do** and **Contacts** tabs to define the kinds and amount of information synchronized.

For more information about the capacity of the contacts list or calendar in your phone, please refer to the technical specifications section of the handset user guide.

- 1 Click the **Calendar/To-do** tab.
- 2 Use the drop-down lists to define the range of time PC Sync uses during synchronization.



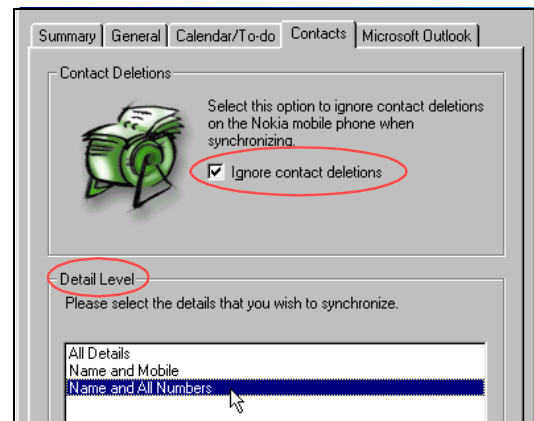
- 3 Click the **Contacts** tab.
- 4 Select the details you want synchronized with your phone.

Contact deletions

By default, contacts deleted from your phone are not deleted from your PIM when you synchronize. If you accidentally delete a contact from your phone, you can restore it by synchronizing again.

Deselecting the **Ignore contact deletions** option instructs PC Sync to permanently delete the corresponding contact in your PIM. Choose this option *only* when you are certain you want PC Sync to delete the PIM contact (and all details) associated with the deleted contacts list entry.

Deleting contacts list entries cannot be undone!



6

Set PIM properties

The last properties tab is labeled with the name of your PIM application. Use this properties tab to modify how PC Sync communicates with your PIM resources. For example, if your PC is configured for multiple users, the default location of the database with your information may be stored in a user profile directory instead of the default location for a single-user PC. PC Sync returns an error message if it cannot find your PIM data.

Use the PIM properties tab to select the correct location of your PIM databases containing current contacts, calendar, and to-do list information.

Synchronizing for the first time

Once you have customized PC Sync for your uses you are ready to synchronize your phone and PIM.

- 1 Click the **Summary** tab.
- 2 Click the **Synchronize Now** button.
- 3 Observe the synchronization status indicator.
- 4 Click the **OK** button when synchronization is complete.



 **Important:** Please refer to the *Troubleshooting* document in the event synchronization is not successful or if PC Suite notifies you of errors. A link to this document can be found in the Nokia PC Suite 4 Program Group.

• UNDERSTAND THE BASICS OF SYNCHRONIZATION

Nokia PC Sync remains running in the background after you synchronize for the first time. PC Sync places an icon in the task bar tray to indicate that the application is running. The colors of the icon change, depending on the status of the connection between your phone and PC, as shown in this example:



Exit PC Sync

Once you have completed setup and have synchronized for the first time, you can either leave the program running in the background, or exit PC Sync. To exit PC Sync, right-click the PC Sync tray icon , then click **Exit**.

Start PC Sync

You have two options for launching Nokia PC Sync:

- As-needed from the Windows Start menu.
- Automatically upon startup.

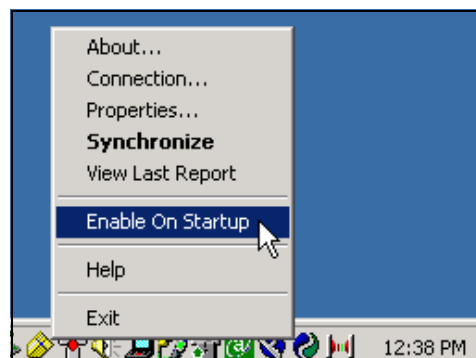
TO ENABLE PC SYNC ON STARTUP

- 1 Establish a connection between your phone and PC.
- 2 Launch PC Sync from the **Start** menu.
- 3 Right-click the PC Sync tray icon, then click **Enable On Startup**

View other PC Sync options

There are several other options available from the PC Sync options menu (from the tray icon). With the phone connected to your PC, right-click on the tray icon, then click any of the following options:

- **About**—used to view information about the PC Sync program.
- **Connection**—used to check the status of the PC/phone connection.
- **Properties**—used to modify current PC Sync settings (change frequency of synchronization, types of data synchronized, etc.).
- **Synchronize**—used to begin data synchronization.
- **View Last Report**—used to view information about the last synchronization attempt.
- **Help**—used to launch the on-line Help files.
- **Exit**—used to close the PC Sync program.



To disable the auto start features, right-click on the PC Sync icon, then click **Enable On Startup** again.

• BEGIN SYNCHRONIZATION

PC Sync starts synchronization between your phone and PC when you launch the program from the **Start** menu. To resynchronize your data while the program is still running, right-click the PC Sync tray icon, then click **Synchronize**.

SYNCHRONIZE USING THE NOKIA DCV-15

You can also initiate synchronization when your phone is connected to the Nokia DCV-14 Connectivity Desk Stand. With the PC Sync program already running, press the synchronization button on the front of the stand.

For more information on the Nokia DCV-15 Connectivity Desk Stand, please refer to the Enhancements chapter, located in the user guide for your phone.

• USE THE NEW SYNCHRONIZATION COMMAND

If you upgrade to a newer version or change PIM applications, you must configure PC Sync to work with the new application. Select **New Synchronization** from the Nokia PC Suite program group, then follow the instructions under "Configure PC Sync" on page 12.



Important: **New Synchronization** is not the command to use when you want to start PC Sync and initiate synchronization between your phone and PC.

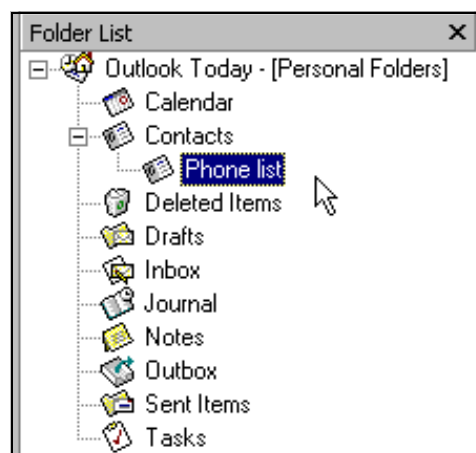
• CREATE A CUSTOM CONTACT LIST

If you have more contacts in your PIM than your contacts list can hold, synchronizing may overload your phone memory.

Nokia suggests you create a custom contact list or subset of your master contact list containing only the information you want in your phone. Depending on the PIM application you use, you may need to create a new contact database file or create a new folder to store the custom contact list.

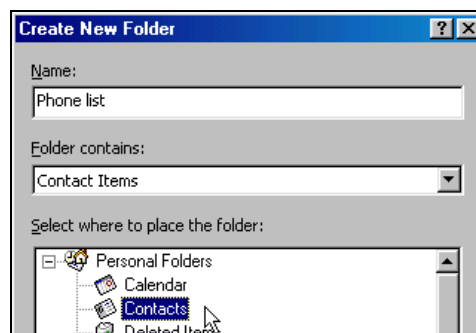
Configure for Outlook users

Outlook users can create folders and subfolders in their Outlook database files. To create a custom contact list, first create a new folder to store contacts. Then copy the desired contact information from your main contacts folder to the new folder. PC Sync allows you to synchronize your phone with the Outlook contacts folder of your choosing.



CREATE A NEW FOLDER FOR PHONE CONTACTS

- 1 Click **File**, point to **Folder**, then click **New Folder**.
- 2 Type the name of your new folder (for example, **Phone list**).
- 3 Click the **Folder contains** drop-down arrow, then click **Contact Items**.
- 4 Select a location for your new folder (for example, click **Contacts** to make **Phone list** a subfolder of the **Contacts** folder).
- 5 Click **OK** to confirm your selection.



COPY CONTACTS TO CUSTOM PHONE LIST

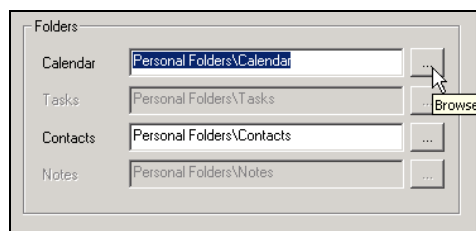
- 1 Click the **Contacts** button on your Outlook bar .
- 2 Select the contacts you want to appear in your custom list.
Hold the **Shift** key, then click to select multiple contacts adjacent to each other.
Hold the **Ctrl** key, then click to select multiple contacts that are not adjacent to each other.
- 3 Click **Edit**, then click **Copy**.
You can also press **Ctrl + C**.
- 4 Select your custom folder from the **Folder List** (for example, **Phone list**).
Or press **Ctrl + Y** to display **Go to Folder** dialog box, then select your custom folder.
- 5 Click **Edit**, then click **Paste** to place copies of the selected contacts into the new folder.
You can also press **Ctrl + V** to paste.

 **Important:** If you decide to drag-and-drop contacts between the **Contacts** folder and the new custom folder, you must hold the **Ctrl** key while dragging, then release the mouse button first. Holding the **Ctrl** key during drag-and-drop allows you to make a copy of all selected contacts in the new folder.

UPDATE OUTLOOK SETTINGS IN PC SYNC

To update PC Sync settings and synchronize with your custom list:

- 1 Establish a connection between your phone and PC.
- 2 Launch Nokia PC Sync from your PC **Start** menu.
- 3 Right-click the PC Sync tray icon, then click **Properties**.
- 4 Click the **Microsoft Outlook** tab.
- 5 Click the **Contacts** browse button , then select your custom folder.
- 6 Click **OK** to confirm your selection.
- 7 Click the **Summary** tab, then click **Synchronize Now** to synchronize your phone and custom phone list.



Configure for other PIM applications

Some PIM applications (such as Lotus Organizer) require a new database file for your custom contacts list. Once you create a new database file, copy the desired contact information from your main database to the new contacts database file. Use the PC Sync settings to choose the database file containing only the information you want to use in your phone.

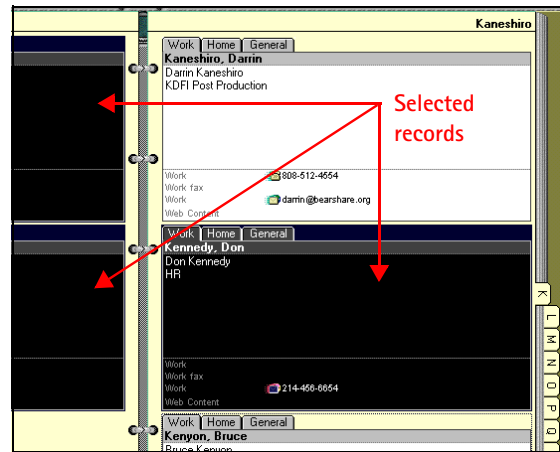
CREATE A NEW LOTUS ORGANIZER DATABASE FILE

- 1 With Lotus Organizer running, click **File**, then click **New**.
- 2 Click **File**, then click **Save As**.
- 3 Enter a name for your custom phone list (for example, **Phone list**).

COPY CONTACTS TO CUSTOM PHONE LIST

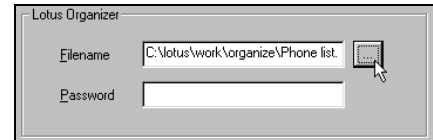
- 1 From the Lotus **File Manager**, open your default Organizer database (c:\lotus\work\organize\<filename>).
- 2 Click the **Contacts** tab, then click the desired alphabet tab.
- 3 Select the desired contacts for your custom list.
Hold the **Shift** key, then click to select multiple contacts adjacent to each other.
Hold the **Ctrl** key, then click to select multiple contacts that are not adjacent to each other.

- 4 Continue by clicking subsequent alphabet tabs and selecting the desired contacts.
- 5 Click the **Copy** button.
You can also press **Ctrl + C**.
- 6 Use the Windows **Task Bar** to switch back to your new contacts list, then click the **Contacts** tab.
- 7 Click the **Paste** button to place copies of the selected contacts into the new list.
You can also press **Ctrl + V** to place copies of the selected contacts in the new list.



UPDATE PC SYNC SETTINGS FOR LOTUS ORGANIZER

- 1 Establish a connection between your phone and PC.
- 2 Launch Nokia PC Sync from the **Start** menu.
If you have PC Sync enabled on startup, right-click the PC Sync tray icon, then click **Configuration**.
- 3 Click the **Lotus Organizer** tab.
- 4 Click the **Contacts** browse button , then select your custom folder.
- 5 Click **OK** to confirm your selection.
- 6 Click the **Summary** tab, then click **Synchronize Now** to synchronize your phone and custom phone list.



7 Nokia PC Graphics

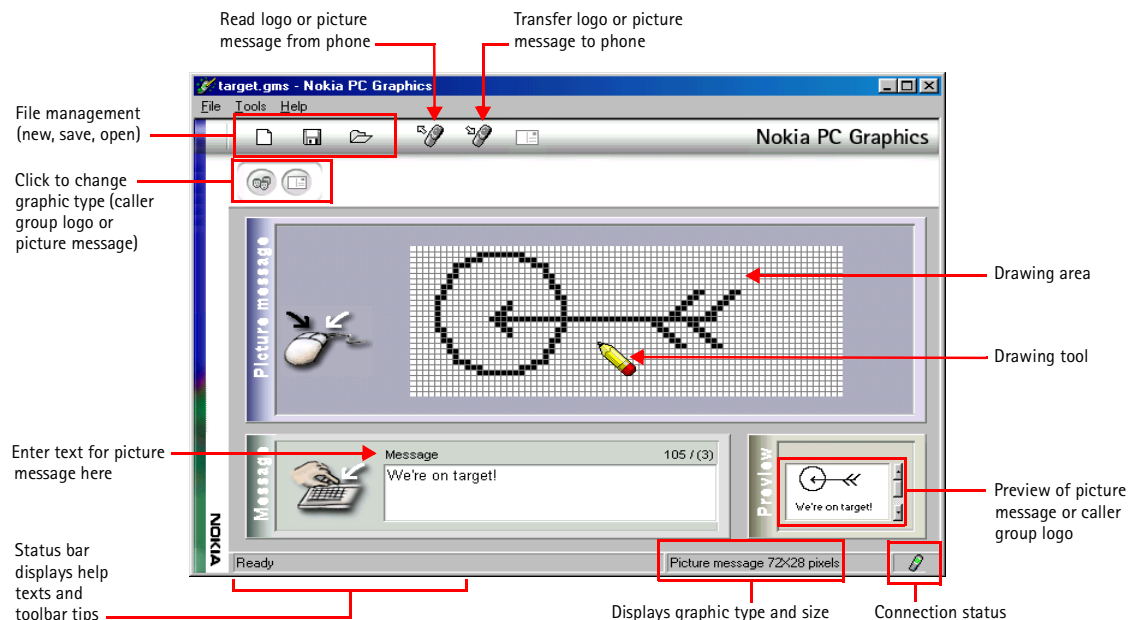
Important: Nokia PC Graphics is intended for use with the Nokia 3585i phone that supports picture messaging and caller group logos. Please check with your service provider for availability of these services in your area.

Nokia PC Graphics is a program that allows you to create and edit picture messages, as well as graphics that can be used for picture messaging. You can also create and edit new caller group logos.

Once you create or modify a graphic, you can transfer it to your phone (using the DKU-5 data cable). You can also save your work to disk to use later, or to share using e-mail with others who also use a compatible version of PC Suite. You can also send the picture messages using SMS to other compatible Nokia phones that support these features.

• TOUR OF PC GRAPHICS

This illustration introduces you to PC Graphic tools and commands:



• CREATE A NEW GRAPHIC

Nokia PC Graphics provides easy to use drawing tools to create unique caller group logos or picture messages. Before you begin drawing, select the type of graphic you want to create.

Important: You do not need to establish a connection between your phone and PC to create a new graphic. You only need to establish a connection when preparing to send the new logo or picture message to your phone (or as an SMS to another user).

Choose a picture type

- 1 Click **Start**, point to **Programs**, point to **Nokia PC Suite 4**, then click **Nokia PC Graphics**.
- 2 Click **Tools**, point to **Picture type**, then click one of the following options:
 - **Group logo**—is used to create new caller group logos.
 - **Picture message**—is used to create picture messages.

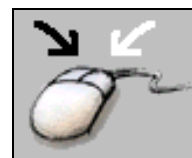
If you select **Picture message**, use the **Size** option from the **Tools** menu to select the size of the picture used in the picture message.

Tip: Selecting the larger picture size reduces the number of characters that accompany the picture message (maximum of 121 characters).

Draw a new picture

The type of picture you select determines the size and overall dimensions of the drawing area. The drawing area is divided into blocks that can be filled in to create the new picture.

Your cursor becomes a pencil that you can use to fill in each block. Use the left mouse button to fill each block with black. If you make a mistake, use the right mouse button to erase (or fill the block with white).



Save a picture

PC Graphics allows you to save your work as a file on your PC hard drive. Saving your logos and picture messages to your hard drive creates a backup copy of your work. You can also save your work, then open the file later to edit or to send the picture message or logo to your phone.



Tip: PC Graphics automatically selects the correct file type based on the picture type you selected. File types supported are: Picture message files (*.gms), OTA Bitmap Files (*.otb), and Bitmap files (*.bmp).

- 1 Click the **Save** button on the toolbar, or select the **Save** command from the File menu.
- 2 Select a location to save your work, then enter a name for your picture.
- 3 Click **Save** to complete the task.

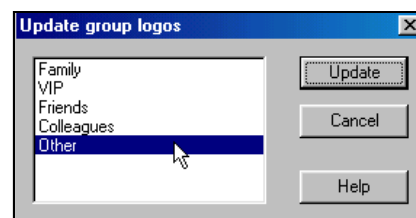
7

• TRANSFER A GRAPHIC TO YOUR PHONE

Once you create a logo or picture message on your PC, you can transfer the information to your phone using your cable connection. Make sure you establish a connection between your PC and phone before you begin.

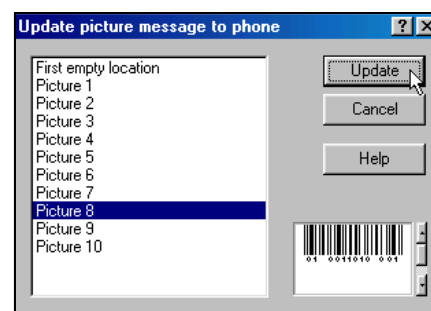
Transfer a group logo to your phone

- 1 Click the **Update to phone** button  on the toolbar, or select the **Update to phone** command from the Tools menu.
- 2 Click the name of the caller group from the list of logos (for example, **Other**).
The logo you created replaces the existing logo for the selected caller group.
- 3 On your phone, press **Names**, scroll to **Caller groups**, then press **Select**.
- 4 Scroll to the caller group you selected in step 2, then press **Select**.
- 5 Scroll to **Group logo**, then press **Select**.
- 6 Scroll to **View**, then press **Select** to confirm the transfer of the logo to your phone.



Transfer a picture message to your phone

- 1 Click the **Update to phone** button  on the toolbar, or select the **Update to phone** command from the Tools menu.
- 2 Click one of the existing picture message locations from the list, or select **First empty location**.
The picture message you created in PC Graphics replaces the existing message in the location you selected.
- 3 Press **Menu 0-1-1-4** (**Messages > Text messages > Archive**), then press **Open**.
If you select **First empty location**, the new picture message appears in your phone **Archive** folder for use at a later time.



Note: For more information on saving pictures in your phone, please refer to the user guide for your phone.

• WORK WITH AN EXISTING GRAPHIC

PC Graphics allows you to edit any of the picture messages already in your phone. You can also open and modify logos and picture messages saved on your PC. Make sure you establish a connection between your PC and phone before you begin.

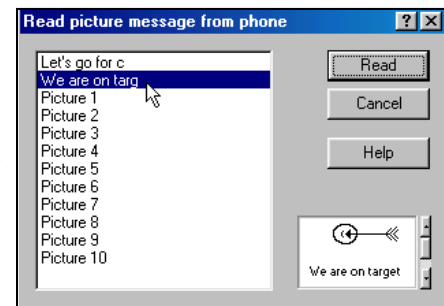
Edit a picture message stored in your phone

With the Nokia PC Graphics application running:

- 1 Establish a connection between your phone and PC.
- 2 Click **Tools**, point to **Picture type**, then click **Picture message**.

- Click **OK** (as needed) to confirm any change in picture size required by Nokia PC Graphics.
- Click the **Read from phone** button , or select the **Read from phone** command from the **Tools** menu.
- Select the picture message or picture you want to edit from the list, then click **Read**.

Once the picture message has been loaded into your PC from your phone, use the pencil tool to edit the image. Click the **Update to phone** button on the toolbar to transfer the logo back to your phone.



Open a graphic you created

You may want to save picture messages or caller group logos on your PC so you can send them to other users at a later time. Click the **Open** button  on the toolbar, or select **Open** from the **File** menu, to locate a graphic saved to your PC. You can then edit the graphic (as necessary) or transfer the graphic to your phone.

• OPEN OTHER BITMAP FILES

Nokia PC Graphics has the ability to open and convert Windows RGB-coded bitmap images for use with picture messaging and caller group logos.

Nokia PC Editor provides tools to select or capture the portion of the image you want to use, and to adjust the image and convert it to black and white for use in your phone.

UNSUPPORTED FILE FORMATS

If the image you want to use is not Windows bitmap format (**.bmp**), you need to use another graphics application and convert the image to bitmap format.

Capture an image

Because of the size and dimension requirements of picture messages and caller group logos, you may only be able to use a portion of your image. Using the cursor, you can highlight or capture that portion of the image you want to use.

PC Graphics captures your image at the correct height and width, based on your selection of **Group logo** or **Picture message** from the **Tools** menu.

With the Nokia PC Graphics application running, complete these steps:

- Click **Tools**, point to **Picture type**, then select the type of graphic you want to create (**Group logo** or **Picture message**).
- Click **OK** (as needed) to confirm any picture size change required by PC Graphics.
- Click the **Open** button  on the toolbar, or select the **Open** command from the **File** menu.
- Click the **File of type** drop-down arrow at the bottom of the **Open** dialog box, then click **Bitmap Files (*.bmp)**.
- Locate and select the image you want to use, then click **Open**.
- Move the mouse pointer over the drawing area until the pointer changes to crosshairs.
- Click and hold the left mouse button, then drag your mouse to draw a rectangle around the area you want to capture.

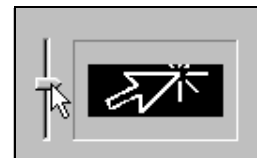
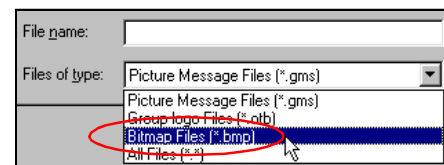
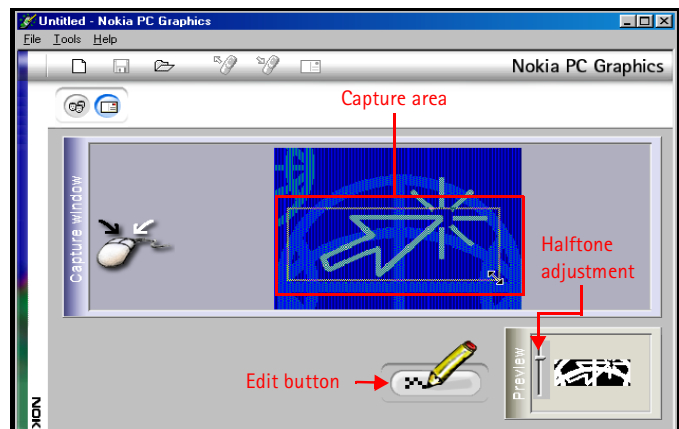


Tip: Once you define the capture area, you can still adjust the height and width using standard Windows resizing techniques. Move the cursor over the border of the capture area until the cursor shape changes, then drag to resize.

Adjust and edit image

A half-tone (black and white) preview of your selection appears in the lower right corner of the PC Graphics window. Use the slider to adjust the image for clarity and quality, observing how PC Graphics converts the color information to black and white.

Once you are satisfied with the quality of the captured image, click the **Edit** button. You can now make further edits to the image, or transfer the graphic to your phone.

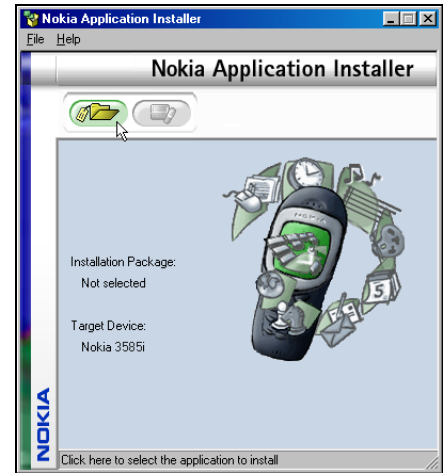


8 Nokia Application Installer

Nokia Application Installer allows you to upload and install Java applications from your PC or laptop computer to your phone. When you install compatible J2ME applications to your phone, you add functionality to your phone, including, for example:

- New games
- Stock portfolio manager
- World clock
- Currency converter

You can use Nokia Application Installer to install applications you download to your PC from the Internet, including those downloaded from your service provider's Web site. Or you can also install applications that you program yourself with the appropriate Java software developer toolkit.



 **Important:** Only download and install software from sources you trust. Please take the necessary precautions to protect against viruses and other harmful software. Nokia Application Installer uses digital signatures and certificates during software installation. Do not install an application if Nokia Application Installer displays a security warning about the software you are trying to install.

• LEARN ABOUT JAVA APPLICATIONS

Java applications consist of two files and can be identified by the (.jad) and (.jar) file extensions. When you download Java applications to your PC for use with your phone, make sure you save both files to the same location. If Nokia Application Installer cannot find the (.jar) file, a dialog box opens and prompts you for the location of the file.

8

• INSTALL AN APPLICATION

- 1 Establish a connection between your phone and PC.
- 2 Launch **Nokia Application Installer**.
- 3 Click the **Install** button , or select the **Install** command from the **File** menu.
- 4 Locate and select the .jad file saved on your PC, then click **Install**.
- 5 Observe the progress indicator as the application is installed. Click **OK** to complete the installation process.

• ERASE AN APPLICATION FROM YOUR PHONE

Your phone has a limited amount of memory for Java applications. For example, you may need to erase old or unused Java applications (or other entries that share memory space) to make memory available for new applications. To erase an existing Java application:

- 1 Press **Menu 1-0-1 (Applications > Select app.)**.
- 2 Scroll to highlight the application you wish to erase, then press **Options**.
- 3 Scroll to **Delete**, then press **Select**.
- 4 Press **OK** to complete the process.

 **Note:** Please refer to your phone user guide for more information on your phone memory architecture and memory sharing feature.

• LEARN ABOUT MULTIPLE PHONES

If you have multiple compatible phones connected to your PC (using both IR and cable connections simultaneously), make sure you select the correct phone when installing your new application. Click the **Select phone** button , then choose the correct phone from the list.

9 Nokia Phone Editor

The Nokia Phone Editor program allows you to edit and manage many phone functions from your PC. Phone Editor consists of the following components:

- **Contacts**—used to manage contacts list entries and to store contact information on your PC
- **Settings**—used to view and modify many system and message settings and store or configure your personal business card information

Make sure you establish a connection between your phone and PC before using Phone Editor. If your phone is not connected to your PC, you cannot edit and manage your phone information and settings.



Important: Phone Editor cannot be used during active digital data or fax calls. Do not try to use these two features simultaneously.

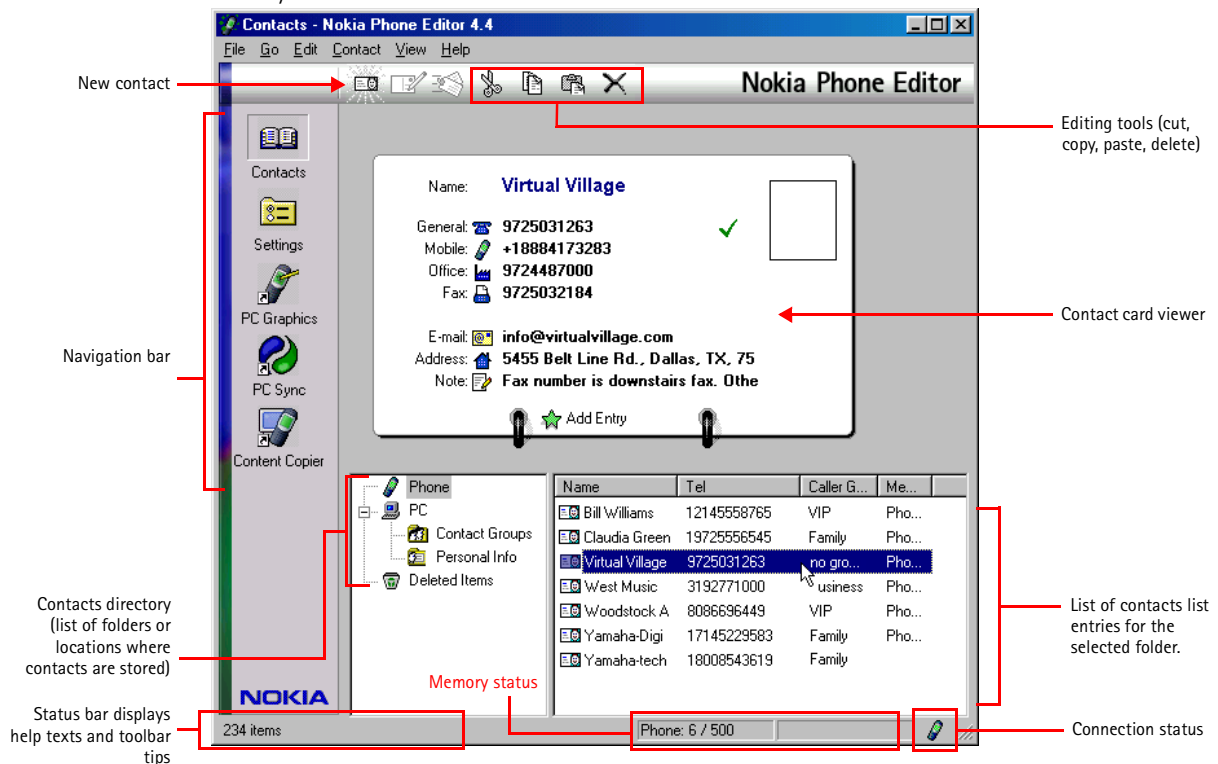
• LEARN ABOUT PHONE MEMORY AND PC STORAGE LOCATIONS

Phone Editor uses your phone memory and your PC (RAM memory and hard drive storage) to store your phone data and settings.

Each time you launch Phone Editor, phone numbers and various phone settings are read into Phone Editor memory. When you terminate the PC connection or exit the program, your phone information is stored on your PC. The next time you use Phone Editor, the information stored on your PC is updated.

• TOUR NOKIA PHONE EDITOR AND CONTACTS WINDOW

This illustration introduces you to Nokia Phone Editor Contacts tools and commands:

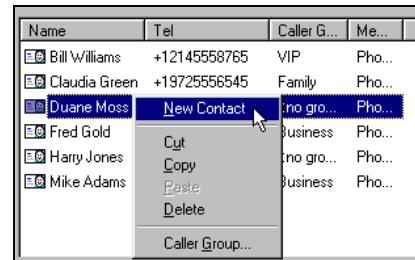


• MANAGE CONTACTS USING PHONE EDITOR

Once you launch Nokia Phone Editor, click the **Phone** folder  in the contacts directory. A list of all contacts list entries is displayed in the pane to the right of the contacts directory.

Many of the Phone Editor commands are available from the program shortcut menu. Select a contacts list entry to edit, then right-click to display a list of the menu options available from the shortcut menu. Select the command you wish to perform from the list.

You can also find the same commands in the program **Contact** and **Edit** menus, or you can use the available toolbar buttons.



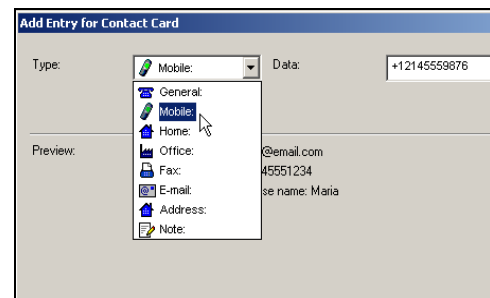
Add a new contact

- 1 Click the **New Contact** button  on the toolbar, or select **New Contact** from the shortcut menu.
- 2 Enter the name of the new contact, then press **Tab**.
- 3 Enter the phone number, then press **Enter** to save your work.

Add additional information to a contact card

Your phone memory can store up to five phone numbers per name and up to four text fields (e-mail address, postal address, etc.). Once you create the initial contact card, click the **Add entry** button on the contact card. The **Add Entry to Contact Card** screen appears.

- 1 Click the **Type** drop-down arrow, then select the type of data you want to add from the list.
- 2 Press **Tab**, then enter the information in the **Data** field.
- 3 Click **Add and Create** to save the data.
- 4 Repeat steps 1–3 to add additional data.
- 5 Click **OK** *only* when you have finished editing the selected contact.

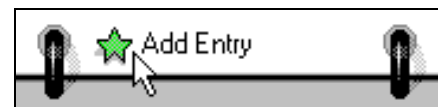


 **Important:** If you enter data, then click **OK**, the information you entered is not saved. You must click **Add and Create** for the new information to be added to the contact card. Click **OK** only when you want to return to the contact card viewer.

ADD NUMBERS OR INFORMATION TO AN EXISTING CARD

To add additional numbers or other information to an existing contact card:

- 1 Select the contact to edit from the list.
- 2 Click the **Add Entry** button, then follow the instructions above to add new information to the selected contact card.



Edit contact information

- 1 Select the contact to edit from the list, then click the contact name (or number) in the contact card viewer.
- 2 Make the necessary changes, then press **ENTER** to save your changes.

Delete a contact

- Click the contact you want to delete from the list, then click the **Delete** button  on the toolbar.
- OR
- Right-click the contact you want to delete, then click **Delete** from the shortcut menu.

Copy and move contacts

Your PC hard drive offers you virtually unlimited storage space for names and numbers. You can copy contacts list entries to the Phone Editor PC folder  to back up your data. Or you can move entries to the PC folder, making more memory available for other entries.

To copy or move contacts:

- 1 Click the folder containing the contacts you want to copy or move (for example, **Phone** .
- 2 Click the contact you wish to copy or move.

Hold the **Shift** key, then click to select multiple contacts adjacent to each other.

Hold the **Ctrl** key, then click to select multiple contacts that are not adjacent to each other.

- 3 Click the **Copy** button  to copy the selected contacts, or click the **Cut** button  to move the selected contacts.
- 4 Click the folder where you want the contacts stored, for example, PC folder .

Add a contact to a caller group

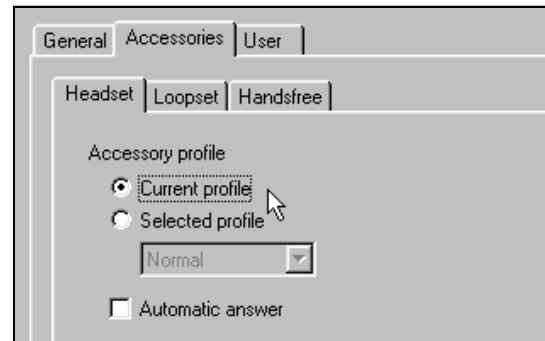
You can use Phone Editor to assign contacts list entries to one of the available caller groups. If you are unfamiliar with the caller group feature, please see your phone user guide.

- 1 Right-click the contact you wish to assign to a caller group, then click **Caller Group**.
- 2 Click the drop-down arrow, then click the desired caller group.
- 3 Click **OK** to change the caller group assignment.

• EDIT SETTINGS

You can use the Nokia Phone Editor **Settings** application to view and edit a variety of phone settings, as well as configure how Phone Editor handles items you delete. The **Settings** application divides all of the settings into three properties tabs, as follows:

- **General**—is used to specify how you want Phone Editor to process deleted items
- **Accessories**—is used to modify how the various accessories work in conjunction with phone profiles
- **User**—is used to edit and store your user information



• LAUNCH OTHER PC SUITE APPLICATIONS

The Phone Editor navigation bar contains buttons that can be used to launch the other PC Suite applications. Use these buttons while in Phone Editor to launch **PC Graphics**, **PC Sync**, or **Content Copier**.

10 Wireless modem setup

 **Important:** Your Nokia 3585i phone can function as a wireless modem only if your service provider's network supports 1XRTT or circuit-switched data (CSD) digital data and fax services. A subscription to these services may also be necessary. Please check with your service provider for more details.

Your phone can function as a wireless modem when connected to your PC. Once your phone is installed and configured properly, your phone works in conjunction with your existing data and fax software, allowing you to connect to a corporate network, the Internet, or check e-mail wherever you are.

• LEARN ABOUT DIGITAL DATA

Circuit switched data (CSD)

Until now, your only wireless data option has been your service provider's CSD network. Using CSD, you create a *virtual circuit* between your phone (as a wireless modem) and your Internet service provider (ISP), corporate network, or a fax machine.

As long as a digital data or fax call is active, you are typically being billed for the air time (whether you are transmitting/receiving data or not). The fastest CSD data rate available is 14.4 kilobits per second (kb/s).

Quick net nonconnect (QNC)

A quick net connect (QNC) digital data call allows you to connect to the Internet more quickly than a traditional CSD call. This is achieved because your wireless service provider supplies the local connection to the Internet (instead of your local ISP dial-up number).

Like CSD calls, you are typically being billed for the air time (whether you are transmitting/receiving data or not). The fastest QNC data rate available is 14.4 Kbps.

1XRTT/3G packet data

Your Nokia phone is the first in a new generation of phones to take advantage of a new higher-speed data protocol called 1XRTT (1X). The benefits to you include:

- **Higher data transfer rates**—data rates up to 153.6 kb/s over the wireless network.
- **Data on-demand**—data transferred only when requested; billing typically based on the amount of data you transfer.

1X packet data services work much the same way as a PC connected to a corporate network. Information is sent in bursts or *packets* only when there is a request for information. Otherwise, the PC or phone remains in an idle state.

Internet access using your wireless service provider

Your wireless phone service provider now becomes your *Internet service provider* when you use your phone as a wireless modem and use 1XRTT packet data or QNC. You no longer have to configure your laptop computer or handheld device for connection to your normal ISP when you want to browse the Web or check your e-mail.

Access corporate network and e-mail using a VPN

Virtual private network (VPN) services provide an encrypted communications tunnel through the Internet, creating a secure connection between your PC and corporate networks using a high-speed or broadband Internet connection.

If you plan on using 2G or 3G packet data services to access your corporate network e-mail system, Intranet, or LAN, your corporate network must have VPN services available. In addition, your network administrator must grant you permission to access the corporate network through the VPN.

Additional software on your PC (or modification of your PC network settings) may also be required. For more information on VPN services, please contact your network administrator.

 **Important:** Some ISPs may not permit access to certain services from Internet connections outside of your ISP domain, for example checking or sending e-mail and newsgroup access. Therefore you may not be able to use 2G or 3G packet data in conjunction with some of your home ISP services. Please contact your ISP for more information on accessing their services from outside their domain.

Determine type of data services to use

Your phone supports all of data services listed above. There are times when it may be advantageous or appropriate to use one type of data service over another.

1XRTT/3G PACKET DATA

You may consider using 1XRTT/3G packet data when:

- You have large amounts of data to transfer and time or speed is a factor.
- You are traveling and want to surf the Web or check e-mail using a wireless Internet connection. Because your service provider is your Internet access point, you do not have to search for the local dial-up number of your home ISP.

QNC OR 2G PACKET DATA

You may consider using QNC data or 2G packet data when you are traveling and want to surf the Web or check e-mail using a wireless Internet connection. Because your service provider is your Internet access point, you do not have to search for your regular ISP local dial-up number.

CIRCUIT SWITCHED DATA

You may need to use CSD data when:

- You send a fax to a machine connected to a traditional phone line.
- You do not have VPN access to your corporate LAN, Intranet, or e-mail system.
- Your ISP does not allow access to their services from outside their domain.

• OBSERVE THE FOLLOWING REQUIREMENTS

Before making or receiving digital data or fax calls:

- You must subscribe to digital data and fax services with your service provider.
- Your phone must be powered up, and you must be in a digital network. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.
- The DKU-5 data cable must be connected and working properly.
- You must establish a connection between your PC.
- You must already have installed your phone as a modem.
- Your data software must be running and configured to recognize your Nokia phone as the active modem.

10

• UNDERSTAND MODEM SOFTWARE

During the modem installation process, Windows looks for software specific to the new device being installed. The modem software (similar to a device driver) for your phone must be downloaded from the PC software downloads section of the Nokia Web site:

<http://www.nokia.com/us>

Since the **Add New Hardware Wizard** for all Windows operating systems searches the A:\ drive for software or device drivers first, Nokia recommends that you save it to a floppy diskette.



Note: If you choose to save the file to your hard drive, please make note of the path to the file as this information is required to complete the installation successfully. Depending on your operating system, locating this file on your hard drive may add additional steps to the installation process.

The Nokia Web site contains the modem software for your phone:

[nmpCDMA1xRTT.inf](http://www.nokia.com/us/nmpCDMA1xRTT.inf)

Choose the correct type of digital data

When installing this software, you are prompted for the type of digital data services you want to use (as well as the COM port associated with the DKU-5 data cable):

- **Nokia CDMA 1XRTT 2G Packet Data Modem** is used for 2G packet data (see your service provider for more information and availability of 2G packet data).
- **Nokia CDMA 1XRTT 3G Packet Data Modem** is used for 1XRTT packet data (see your service provider for more information and availability of 3G packet data).
- **Nokia CDMA 1XRTT Data Fax Modem** is used for CSD and QNC digital data and fax calls (see your service provider for more information and availability of CSD and QNC data services).

• INSTALL THE MODEM

 **Important:** You must follow the DKU-5 installation instructions found in the DKU-5 sales package prior to completing the following steps.

1 Connect the DKU-5 data cable to an available USB port on your computer.

2 Connect the DKU-5 cable to your Nokia phone.

Your phone displays a message indicating you have connected the data cable successfully, then returns to the Start screen.

3 From the Windows **Control Panel**, double click the **Modems (98/ME)** or **Phone and Modem Options (2000/XP)** icon.

4 Click **Add**.

For Windows 2000/XP users, click the **Modems** tab, then click **Add**.

5 Select the **Do not detect my modem...** option, then click **Next**.

6 Click **Other** if asked about a PCMCIA modem, then click **Next**.

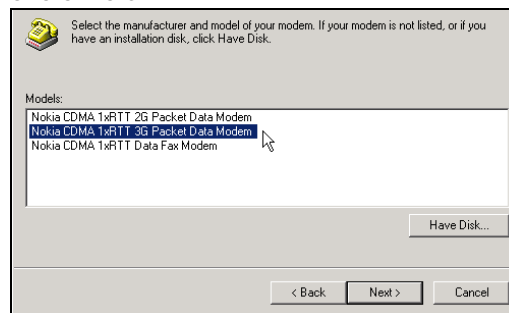
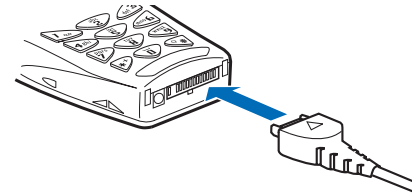
This screen may not appear on all systems.

7 Insert the floppy diskette containing the .inf file in your drive now.

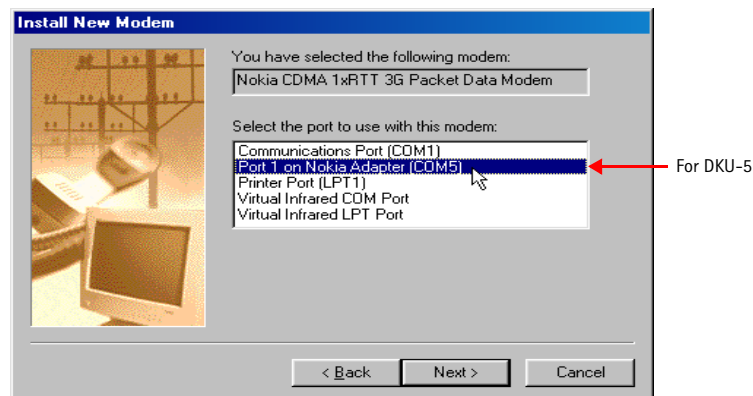
8 Click the **Have Disk** button.

Confirm that **A:** is the location of the **nmpcdma1xrtt.inf** file, then click **OK**.

9 Select the correct modem for the type of data services you plan on using (for example, **Nokia CDMA 1XRTT 3G Packet Data Modem** for 3G packet data), then click **Next**.



10 Select the COM port assigned to the DKU-5 cable, then click **Next**.



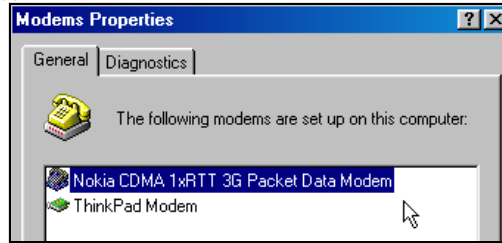
The Wizard indicates it has located the correct software for your phone.

If you cannot remember the COM port assigned to the DKU-5 data cable during the installation process, refer to Windows Device Manager.

11 Click **Yes** to continue the installation if Windows presents the **Digital Signature Not Found** message.

12 Click **Finish** when Windows informs you that the device is installed successfully.

- 13 Verify that your Nokia phone appears in the list of modems.



Complete the process by configuring your data software to work with the new modem configuration. For more information, see "Data and fax software setup" on page 28.

• CHANGE DATA SERVICES

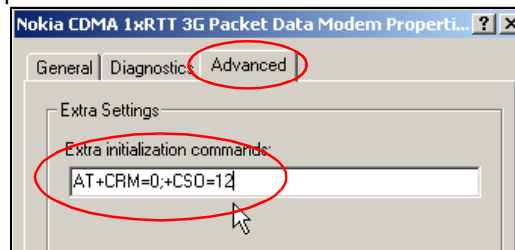
If you plan on using more than one type of digital data services, you need to modify the existing modem properties so your phone can make the correct type of data connection.

Advanced properties

Your phone can configure itself for the correct type of data through the use of standard Hayes-compatible AT commands. Please make a note of the following AT command strings:

Type of data	Initialization string
CSD and QNC	AT+CRM=0 ; +CSO=12
2G packet data	AT+CRM=1 ; +CSO=15
3G packet data	AT+CRM=1 ; +CSO=33

Before making a digital data or fax call, make sure the correct initialization string appears in the Extra Initialization commands field, located in the Advanced Properties screen:



Important: If you installed your phone as Nokia CDMA 1xRTT 3G Packet Data Modem and want to make a 3G packet data call, no additional settings are required. The AT commands are only required when you want to make a data call different than the type of data you selected during modem installation.

- 1 Establish a connection between your phone and PC.
- 2 From the list of installed modems, click **Nokia CDMA 1xRTT 3G Packet Data Modem**, then click **Properties**.
- 3 Click the **Advanced** tab.
- 4 Enter the initialization string for the type of data call you wish to make, then click **OK**.

11 Data and fax software setup

Before you can use your phone to send and receive digital data and fax calls, you must configure your data software so that it uses your phone rather than your existing modem. You may consider creating a separate set of dialing properties to use when your phone is connected to your computer, rather than changing any existing settings.

• OBSERVE THE FOLLOWING REQUIREMENTS

Before making or receiving digital data or fax calls:

- You must subscribe to digital data and fax services with your service provider.
- Your phone must be powered up, and you must be in a digital network. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.
- The DKU-5 data cable must be connected and working properly.
- You must establish a connection between your PC.
- You must already have installed your phone as a modem.
- Your data software must be running and configured to recognize your Nokia phone as the active modem.

• USE MICROSOFT DIAL-UP NETWORKING FOR PACKET DATA (2G, 3G) AND QNC

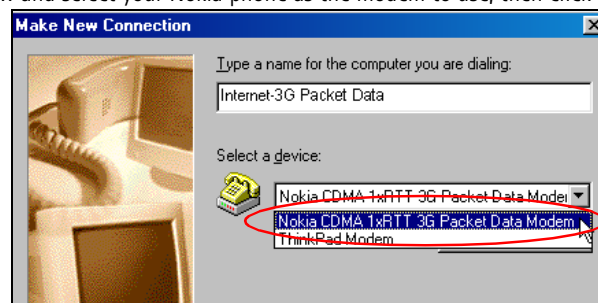
You can use Windows Dial-up Networking to connect to the Internet through your wireless service provider. However, instead of dialing a traditional phone number, the dialing string to access the packet data network or QNC network is, for example:

#777

Check with your wireless service provider for the exact dialing string needed and for your username and password (if required).

Create a new connection (Windows 98/ME)

- 1 Double-click the **My Computer** icon, then double-click the **Dial-up Networking** folder.
For Windows 2000 and Windows ME users, click **Start**, point to **Settings**, then click **Dial-up Networking**.
- 2 Double-click the **Make New Connection** icon.
- 3 Type a name for your new connection (for example, **Internet-3G Packet Data**).
- 4 Click the drop-down arrow and select your Nokia phone as the modem to use, then click **Next**.

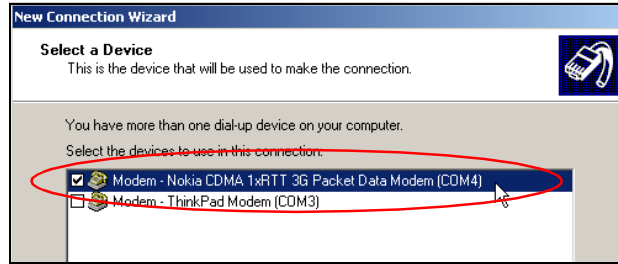


- 5 Enter the packet data or QNC network access code, for example, **#777**, then click **Finish**.
You may need to remove area code information so only the access code appears.

Create a new connection (Windows 2000)

- 1 Click **Start**, point to **Settings**, then click **Network and Dial-up Connections**.
- 2 Double-click **Make New Connection**, then click **Next** to begin the **Network Connection Wizard**.
- 3 Verify that **Dial-up to private network** is selected, then click **Next**.

- 4 Select only your Nokia phone as the active modem, then click **Next**.

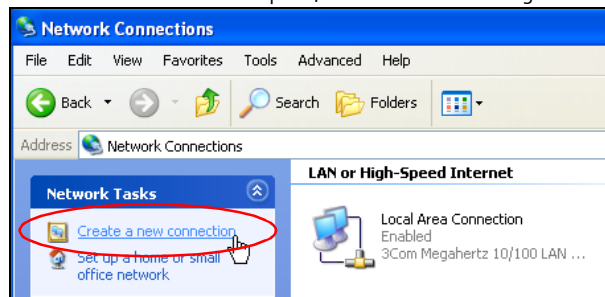


- 5 Enter the network access code (for example, **#777**), then click **Next**.
- 6 Select the connection availability, then click **Next**.
- 7 Type a name for your new connection (for example, **Internet-3G Packet Data**), then click **Finish**.

Your new Dial-up Networking connection is now ready for use. You may need to update or remove information found in the **User name** field prior to creating a 1XRTT connection.

Create a new connection (Windows XP)

- 1 Click **Start**, then click **Control Panel**.
- 2 Double-click **Network Connections**.
- 3 Click **Create a new connection** in the **Network Tasks** pane, then click **Next** to begin the **New Connection Wizard**.



- 4 Verify that the **Connect to the Internet** option is selected, then click **Next**.
- 5 Click the **Set up my connection manually** option, then click **Next**.
- 6 Click the **Connect using a dial-up modem** option, then click **Next**.
- 7 Select only your Nokia phone as the active modem, then click **Next**.
- 8 Type a name for your new connection (for example, **Internet-3G Packet Data**), then click **Next**.
- 9 Enter the network access code (for example, **#777**), then click **Next**.
- 10 Enter the username and password as supplied by your wireless service provider (as required).
- 11 Cancel any of the options on the **Internet Account Information** that you do not need, then click **Next**.
- 12 Click **Finish** to complete the Wizard.

Connect to the packet data or QNC network

- 1 Establish a connection between your phone and PC.
- 2 Double-click the new connection (for example, **Internet-3G Packet Data**).
- 3 Supply user name or password (as needed), then click **Connect**.

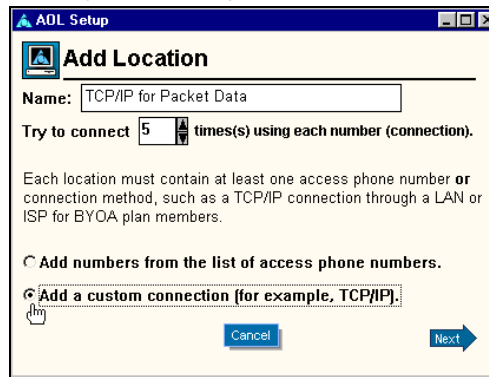
Your phone displays **Creating packet data connection** while establishing a connection. Once a successful connection has been made, the  status indicator appears in the upper left corner of the phone screen. Your Windows operating system displays its normal series of authentication messages while the connection is being established.

• CONFIGURE AOL FOR PACKET DATA OR QNC

You can use the packet data network to access your AOL account. However, instead of using the AOL dial-up number, you connect using the AOL TCP/IP connection option. The following instructions are based on America Online (AOL) version 6 software (or newer). For more information on your AOL software, visit: <http://www.aol.com>.

Configure AOL for TCP/IP access

- 1 From the AOL Sign On screen, click **SETUP**.
- 2 Click **Expert Setup**, then click the **Locations** tab.
- 3 Click the **Add Location** button.
- 4 Enter a name for this location (for example, TCP/IP for packet data).



- 5 For Windows 98/ME users, click the **Add a custom connection** option, then click **Next**.
For Windows 2000/XP users, click the **Select a connection using one of these available devices** options, then select the **TCP/IP** option from the drop-down list. Click **Next**.
- 6 Enter a name for this type of connection in the **Add number (Connection)** screen (for example, 1X).
- 7 Verify that TCP/IP is the type of connection selected, then click **OK**.
- 8 Click **Close** to close the **Connection Setup** window.

Connect to AOL

- 1 Double-click the **Dial-up Networking** configuration you created for packet data (for example, Internet-packet data).
- 2 Click **Connect** and establish a connection to the Internet.
- 3 Launch the AOL program.
- 4 Select the TCP/IP location option from the drop-down list on the **Sign On** screen (for example, TCP/IP for packet data), then click **SIGN ON**.

AOL should now connect using your wireless service provider's Internet access.

• USE MICROSOFT DIAL-UP NETWORKING FOR CSD

You may be using Windows Dial-up Networking feature to connect to your Internet service provider or to make a remote connection to your corporate network (including corporate e-mail server using Microsoft Outlook or Lotus Notes).

Rather than altering the existing configurations you use when dialing with your existing modem, consider creating a new connection exclusively for use with your Nokia phone (as detailed below).

Gather configuration information

You need the phone number for your Internet service provider or for your company remote access server. When testing the new connection, you also need your user name and password. You may also be required to enter additional configuration information such as a domain name or IP addresses for DNS servers. Your Internet service provider or corporate help desk should supply you with all the information you need.

Create a new connection



Begin with the instructions for creating a Dial-up Networking connection for a 1XRTT data call. Depending on your computer operating system, see "Create a new connection (Windows 98/ME)" on page 28, "Create a new connection (Windows 2000)" on page 28, or "Create a new connection (Windows XP)" on page 29.

To complete the process:

- 1 Enter the phone number for your local ISP or corporate network.
- 2 Complete the Dial-up Networking Wizard, then click **Finish** to save the new configuration in your Dial-up Networking folder.
- 3 Configure any necessary network parameters for this connection prior to dialing (IP address of **DNS** or **WINS**, etc.) by clicking the **Properties** button.

You can also right-click the new Dial-up Networking icon, then click **Properties**.



Note: For more information on configuring your network connection, please consult your Internet service provider or your company help desk.

Connect to the network

- 1 Double-click the new connection (for example, **Internet-Nokia CSD**).
- 2 Enter your user name and password, then click **Connect**.
- 3 Your phone displays **Connecting...** while establishing a connection.

Once a successful connection has been made, **Data call** appears on the phone screen. Your Windows operating system displays its normal series of messages while the connection is being established and verified.

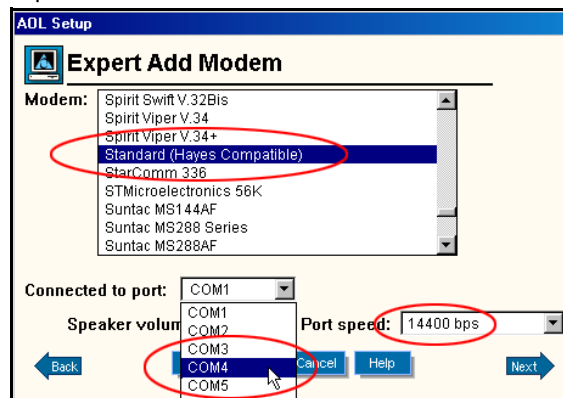
• CONFIGURE AOL FOR CSD

Your AOL software can be configured to use your phone as a wireless modem for a CSD digital data call. Windows 98/ME users, continue with the instructions to follow. Windows 2000/XP user, skip to "Modify AOL Locations" on page 32.

Modem setup (windows 98/ME)

To add your Nokia phone as a new modem to the AOL connection setup:

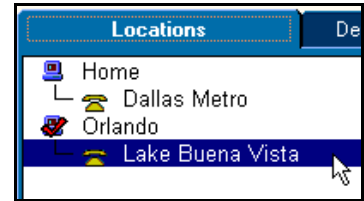
- 1 From the **Sign On** screen, click **SETUP**.
- 2 Click **Expert Setup**, then click the **Devices** tab.
- 3 Click the **Expert Add** button.
- 4 Verify that **Modem** (telephone line connection) is selected as the type of connection device you want to add, then click **Next**.
- 5 Select the generic modem option (for example, **Standard (Hayes Compatible)**) from the list of modems.
- 6 Select the COM port assigned to the DKU-5 data cable.
- 7 Set the port speed to **14400 bps**, then click **OK**.



Modify AOL Locations

Now that your phone is configured for use by the AOL software, you need to modify your Locations settings to use your phone as the active modem.

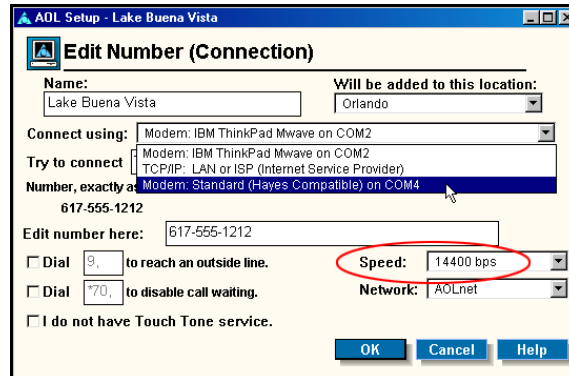
- 1 From the **Connection Setup** screen, click the **Locations** tab.
- 2 Double-click the number for the location you wish to use with your phone.
- 3 Click the **Connect using** drop-down arrow.



Windows 98/ME users, click **Modem: Standard (Hayes compatible) on COMnn** (where *nn* is COM port assigned to the DKU-5 data cable).

Windows 2000/XP users, click **Nokia CDMA 1XRTT Data Fax Modem**.

- 4 Click the **Speed** drop-down arrow, then click **14400 bps** (Windows 98/ME only).



- 5 Click **OK** to confirm your changes, then click **Close** to return to the **Sign On** screen.

• LEARN ABOUT OTHER DATA APPLICATIONS

Several other types of telecommunications applications can be used with your wireless phone and your computer, including:

- **Terminal Programs** are used to connect to BBS services (bulletin board system) and mainframe or mini-mainframe computers. Quarterdeck Procomm Plus, Microsoft Works (Communications Module), R-Link, and P-Term are just a few examples of this type of program.
- **Remote Administration** are used to access your home or office computer remotely for file sharing or remote control. Symantec PCAnywhere, McAfee Remote Desktop and Reach Out, Farallon's Timbuktu, Claris Apple Remote Access, and Attachmate EXTRA! are a few examples of this type of program.
- **On-line Services** are used to access the Internet, or discussion and information forums within the service. On-line services provide their own proprietary software interface for accessing their service. America Online, CompuServe, MSN (Microsoft Network), and Prodigy are just a few on-line service providers that use their own proprietary software.



Important: These examples are provided for your information only. Nokia does not endorse or provide support for any of the above applications or services.

• CONFIGURE YOUR FAX SOFTWARE

Before you can use your phone to send and receive fax calls, you must configure your fax software so that it uses your phone as the active modem (rather than your existing modem).

Many of the most popular fax programs should support multiple modems connected to a PC or laptop computer, including Symantec WinFax Pro, Smith Micro Software HotFax (version 3.02 or newer), Castelle FaxPress, etc.



Note: Data or fax calls using your wireless phone are possible only if your service provider supports digital data and fax service. You may be required to subscribe to these services. Check with your service provider before attempting to send or receive faxes.

Select the correct modem

Each fax application typically has a setup menu that can be used to alter the settings for your modem, as well as define how and when calls are to be received (for example, immediately, on the third ring, etc.). This menu may also provide you with a list of available modems that you can use when sending and receiving fax calls.

Use your fax program settings menu to select your phone as the active fax modem.

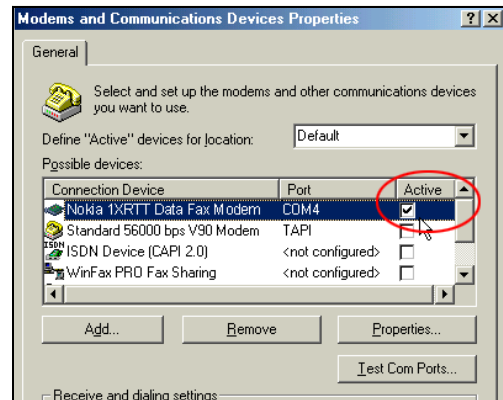
Confirm hardware settings

Use the modem properties dialog box of your fax software to confirm the following settings:

- Communications port: COM nn (where nn the virtual COM port number assigned to the DKU-5 data cable)
- Initialization: 19200 bps
- Modem type: Class 2.0
- Flow control: Hardware



Note: You may need to add the following initialization string to your fax software, even though the program provides a drop-down list or checkbox for setting the fax mode/class: **AT+FCLASS=2.0**



• LEARN ABOUT MANUAL SELECTION OF INCOMING CALLS

You can receive digital data or fax calls with your PC using your Nokia phone the same way that you would using your existing modem.

Certain service providers require that you preset your phone to receive incoming data or fax calls, rather than having the phone automatically detect the type of incoming call.



Note: Your service provider may have special requirements for inbound data and fax calls. Check with your service provider to see if *prearrangement* of incoming data or fax calls is necessary.

11

Prearrange data and fax call settings in your data/fax software

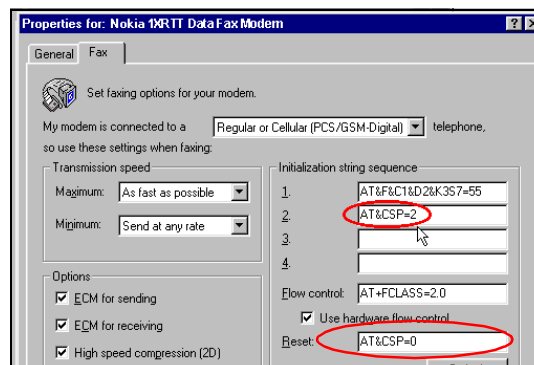
Before you can successfully receive a digital data call or fax transmission in this situation, your phone must receive a special command from your data or fax software. This command tells your phone that the next call it receives is a data call or fax transmission.

Your data or fax programs should allow you to send additional commands to the modem when the program is launched or when the fax software instructs the modem to receive a call. Use the modem configuration menu in your fax software to send the following special initialization string to the modem:

To preset your phone to receive a data call, use the following AT command: **AT+CSP=1**

To preset your phone to receive a fax call, use the following AT command: **AT+CSP=2**

The following is an illustration of one fax program modem settings dialog box, and is provided as an example of how to configure your software:



You should only have to make this modification once; the modem configuration is usually saved as a part of your data or fax program settings. Please refer to the documentation or online help files for your data program for more information.

Prearrange data and fax call settings from phone menu options

Your phone contains a menu option that should be used to configure your phone for inbound data and fax calls. This option uses the phone menu to prearrange inbound data and fax calls, rather than entering customized modem initialization strings into your data or fax software.

- 1 From the Start screen, press **Menu 4-1-8-1** (Settings > Call settings > Data/fax calls > Incoming data/fax call).
- 2 Scroll to highlight the desired type of inbound call (**Data calls only, Fax calls only**).
- 3 Press **Select** to confirm your choice.
- 4 Press  to return to the Start screen.

Phone display

When the software has sent the proper command to your phone, the phone displays a message indicating it is ready for the incoming data or fax call.

Once your phone is preset for either data or fax reception, you cannot receive incoming voice calls. You must either remove the data cable or turn the phone power off and back on to restore normal voice call reception. However, it is still possible to place calls with the phone and PC connected while in prearranged data/fax call mode.

Notes about data and fax calls

- Do not terminate digital data or fax calls by pressing the  key. This action may cause your data or fax application to lock up temporarily and could cause loss of data. Use your data or fax software to terminate data or fax calls.
- Data or fax calls cannot be initiated using your phone keypad. All calls must be initiated using the data or fax software.
- Any touch tones (DTMF tones) needed for calling cards, special long-distance access numbers, etc. must be programmed into the dialing string.

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